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“ and have frequently found four or five flies, some alive, and some
“ dead, in its flowers; they are generally caught by the trunk or
“ proboscis, sometimes by the trunk and a leg; there is one at pres-
“ ent only caught by a leg; I don't know that this plant sleeps, as
“ the flowers remain open in the night; yet the flies frequently make
“ their escape. In a plant of Mr. Ordoyno's, an ingenious gardener
“ at Newark who is possessed of a great collection of plants, I saw
“ many flowers of an Apocynum with three dead flies in each; they
“ are a thin bodied fly, and rather less than the common house-fly;
“ but I have seen two or three other sorts of flies thus arrested by
the plant, August 12, 1788'.” W. W. BAILEY.

PROVIDENCE, R. I.

§ 77. **Sandwich Island Mosses.**—Collected by H. MANN and W. T. BRIGHAM. Named by W. S. SULLIVANT, (May, 1872.)

1. **Dicranella exilis,** (*n. sp.*)—Caule 2-3 lineari, foliis erecto-patentibus rigidis ex ovato longe sensim anguste acuminatis, cellulis oblongis uniformibus lævibus, costa lata ad apicem et ultra continua, capsula erecta oblongo-elliptica, operculo æquilongo obliquo, annulo speciosa, pedicello 3-lineari, peristomio dicranoideo, calyptra generis.—Kuala Mountains, Oahu.

2. **Dicranum præmorsum** (*n. sp.*)—Robustum elatum tomentoso-contextum; foliis erecto patentibus longe lineali-lanceolatis convolutis apice extremo lobato-truncatis ibidemque grossius serratis, cellulis angustis interruptis, illis alaribus subquadratis brunneis, costa tenui subindistincta dorso superne lenissime serrata, perichætialibus alte vaginantibus filiformi-acuminatis, capsula elongato-cylindracea erecta stricta leniterve curvula, operculo subulato-rostrato, peristomio et calyptra generis.—Mountains of West Maui.

3. **Trematodon longicollis,** *Rich.*—Waiulua Mountains, Oahu.

4. **Campylopus flexuosus,** var:—valleys of West Maui.

5. **Campylopus exasperatus,** *Brid.*—Highlands of Hawaii.

6. **Ceratodon purpureus,** *Brid.*—Hualalui, Hawaii, 6,000 ft. alt.

7. **Leucobryum gracile** (*n. sp.*)—A *Leucobryo minore* simillimo distinctum foliis paulo minoribus, pedicellis gracilioribus longioribus, capsulis brevioribus magis cernuis distinctius strumosis, etc.—Woods, Oahu.

8. **Leucobryum falcatum,** *C. Müll*—Oahu.

9. **Encalypta ciliata,** *Hedw.*—Hualului, Hawaii, 6,000 ft. alt.

10. **Racomitrium lanuginosum,** var.—Mauna Loa, Hawaii 5.000–1,300 ft. alt.

11. **Macromitrium Reinwardtii,** *Schwgr.*—Woods, Oahu.

12. **Macromitrium piliferum,** *Schwgr.*—On rocks, Oahu.

13. **Funaria hygrometrica.** *Hedw.*—Hualului, Hawaii, 6,000 ft. alt.

14. **Bartramia rigida,** var.—Woods, Hilo, Hawaii.

15. **Bartramia Marchica,** var.—Caulibus ramulisque minus gracilibus, foliis oblongioribus citius acutatis, costa vix excurrente, pedicello breviore, etc.

16. **Bryum argenteum,** *Linn.*—Hualulai, Hawaii, 6,000 ft. alt.

17. **Mnium giganteum,** *Sshwgr.*—Oahu!

18. **Rhizogonium spiniforme,** *Bruch.*—Woods, Hilo, Hawaii.

19. **Rhizogonium spiniforme,** var. foliis brevioribus, etc.

20. **Rhizogonium spiniforme,** var. elatum ?—Woods, Oahu.
21. **Rhacopilum tomentosum,** *Brid* —Woods, Oahu.
22. **Rhacopilum tomentosum,** var.? an species nova.—Woods, Kona, Hawaii.
23. **Mniadelphus paradoxus,** *C. Müll.*—Oahu.
24. **Meteorium trichophorum,** *Mont*—Woods, Oahu.
25. **Meteorium illicebrum,** *Nees.*—Hawaii.
26. **Neckera dendroides,** *Hook.*—Oahu.
27. **Hypnum plumosum,** *Linn.*—Hualui, Kauai.
28. **Hypnum gracilisetum,** *Hoh. & R.*—Oahu.
29. **Hypnum pungens,** *Hedw.*—Kona, Huanai, Oahu.
30. **Hypnum Bonplandii,** *Hook. ?*—Oahu.
31. **Hypum Draytoni,** *Sulliv.*
32. **Hypum Wilkesianum,** *Sulliv.*—Oahu.
33. **Hypnum paucipilum** (*n. sp.*)—Dioicum *minusculum* delicatulum nitidum; caule repente pinnato, foliis oblongo-lanceolatis longe filiformi-attenuatis decurvo-falcatis tenuissimis, a medio ad apicem serratis basi brevissime bicostellatis, cellulis angustissimis, alaribus 2–3 utrinque vesiculiformibus, perichaetialibus erectis, capsula oblonga annulata horizontali, pedicello gracilescente, operculo longe rostrato, calyptra cuculliformi pilis paucis longis conspersa.—Oahu.
34. **Hypnum Pickeringii,** *Sulliv.*—Oahu.
35. **Hypnum molliculum,** *Sulliv.*—Oahu.
36. **Hypnum apertum,** *Sulliv.*
37. **Thuidium cymbifolium,** *D. & Mlk.*—Woods, Kona, Hawaii.
38. **Thuidium delicatulum,** *Hedw.*

§ **78. New Publications.**—1. *Flora Fossile dell' Etna*, per Francesco Tornabene, Casinese Professore di Botanica alla Regia Universita di Catania, ed ivi Direttore del R. Orto Botanico. Catania, 1859. Small quarto, pp. 147, with 10 lithographic plates. Presented to the Club by Dr. C. H. F. Peters, director of the Litchfield Observatory of Hamilton College (and, by the way, the original copy presented to Dr. Peters by the author). This is an account, principally in Italian, of the fossil flora of Mt. Etna, the technical descriptions of the plants and of the plates being in Latin; with an introduction setting forth the general scope of the work, a preliminary chapter on the origin of the rocks and earths, and another interesting chapter on the botanical stations and distribution of plants on the mountain; and on the process of formation of the fossil flora. A general abstract of these introductory chapters would be very instructive, if space would permit.

The author accompanies his descriptions of the fossil plants with observations upon the kindred living species, and seems to have neglected no source of information regarding his subject, drawing largely upon the observations of foreign travelers and geologists.

Naturally the fossil flora on the sides of a still active volcano differs materially from that of old extinct terrains; as the deposits of lava, stones and ashes on its slopes suffer such varied disintegrations, and allow such multiplied effects to be produced by the